

What is claimed is:

1. A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

- 5 a unitary first rotor portion including a first rotor shaft spud;
a unitary second rotor portion joined to said first rotor portion to define a rotor interior;
a unitary baseplate positioned in said rotor interior and being received by said second rotor portion, said baseplate including a second rotor shaft spud extending
10 through and beyond said second rotor portion; and
a fluid processing element positioned in said rotor interior.

2. The centrifuge rotor of claim 1 wherein said first rotor portion is an all-plastic component of said centrifuge rotor.

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3. The centrifuge rotor of claim 2 wherein said second rotor portion is an all-plastic component of said centrifuge rotor.

4. The centrifuge rotor of claim 3 wherein said baseplate is an all-plastic
20 component of said centrifuge rotor.

5. The centrifuge rotor of claim 4 wherein said first rotor shaft spud defines a fluid bore.

25 6. The centrifuge rotor of claim 5 wherein said second rotor shaft spud defines a fluid bore.

7. The centrifuge rotor of claim 1 wherein said second rotor portion is an all-plastic component of said centrifuge rotor.

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8. The centrifuge rotor of claim 1 wherein said baseplate is an all-plastic component of said centrifuge rotor.

9. The centrifuge rotor of claim 1 wherein said first rotor shaft spud defines a fluid bore.

5 10. The centrifuge rotor of claim 1 wherein said second rotor shaft spud defines a fluid bore.

11. The centrifuge rotor of claim 1 wherein said first rotor shaft spud includes a first bearing surface and said second rotor shaft spud includes a second bearing surface
10 that is coaxially aligned with said first bearing surface.

12. A disposable centrifuge rotor for fluid processing, said centrifuge rotor comprising:

a unitary, molded plastic first rotor portion;
15 a plastic first rotor shaft spud joined to said first rotor portion;
a unitary, molded plastic second rotor portion joined to said first rotor portion to define a rotor interior;
a unitary, molded plastic baseplate positioned in said rotor interior and being received by said second rotor portion;
20 a plastic second rotor shaft spud joined to said second rotor portion and defining a bearing surface extending beyond said second rotor portion, said first rotor shaft spud having a bearing surface that is coaxially aligned with the bearing surface of said second rotor shaft spud; and
a fluid processing element positioned in said rotor interior.

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13. The centrifuge rotor of claim 12 wherein said first rotor shaft spud defines a fluid bore.

14. The centrifuge rotor of claim 13 wherein said second rotor shaft spud
30 defines a fluid bore.

15. The centrifuge rotor of claim 14 wherein the construction and arrangement of said first rotor shaft spud is the same as the construction and arrangement of said second rotor shaft spud.

5 16. The centrifuge rotor of claim 15 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an outer surface of its corresponding rotor portion.

10 17. The centrifuge rotor of claim 15 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an inner surface of its corresponding rotor portion.

15 18. The centrifuge rotor of claim 12 wherein the construction and arrangement of said first rotor shaft spud is the same as the construction and arrangement of said second rotor shaft spud.

20 19. The centrifuge rotor of claim 12 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an outer surface of its corresponding rotor portion.

20 20. The centrifuge rotor of claim 12 wherein each rotor shaft spud includes an abutment lip that is constructed and arranged to abut up against an inner surface of its corresponding rotor portion.

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